

## Fig. 1a

```
- MAAIKEEREVEDYKRKRKTISTGHEPKEPEQLRKLFIGGLSFETTDDSLR
CHKA1
                            -----SKSESPKEPEQLRKLFIGGLSFETTDESLR
HUMA1
      - EOFEKWGTLTDCVVMRDPQTKRSRGFGFVTYSCVEEVDAAMSARPHKVDG -100
CHKA1
         - SHFEQWGTLTDCVVMRDPNTKRSRGFGFVTYATVEEVDAAMNARPHKVDG
HUMA1
      - RVVEPKRAVSREDSVKPGAHLTVKKIFVGGIKEDTEEYNLRGYFETYGKI -150
CHKA1
       - RVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEEHHLRDYFEQYGKI -131
HUMA1
      - ETIEVMEDRQSGKKRGFAFVTFDDHDTVDKIVVQKYHTINGHNCEDKKAL -200
CHKA1
       - EVIEIMTDRGSGKKRGFAFVTFDDHDSVDKIVIQKYHTVNGHNCEVRKAL -181
HUMA1
      - SKQEMQTASS-QRGRGGGSGNFMGRGNFGGGGGG-----NFGRGGNFGG -242
CHKA1
                                        -1111111
       41111 111 1111 1
                            - SKQEMASASSSQRGRSGS-----GNFGGGRGGGFGGNDNFGRGGNFSG -224
HUMA1
      - RGGYGGGGGGGSRGSFGGGDGYNGFGDGGNYGGGPGYGSRGGYGGGGGP -292
CHKA1
                       1111 11
        111 11
      - RGGFGGSRGGGGYGGS---GDGYNGFGNDGS
HUMA1
      - GYGNPGGGYGGGGGGYGGYNEGGNFGGGNYGGSGNYNDFGNYSGQQQSNY -342
CHKA1
                              4 14 1 14 14 14 14 14 14
      - ----neggggsyndegnynnos-sne -273
HUMA 1
      - GPMKGGGSFGGRSSGSPYGGG-----YGSGSGSGSGYG-GRRF
CHKA1
        111111 111111 11111
                                  - GPMKGG-NFGGRSSG-PYGGGGQYFAKPRNQGGYGGSSSSSSYGSGRRF
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HUMA1
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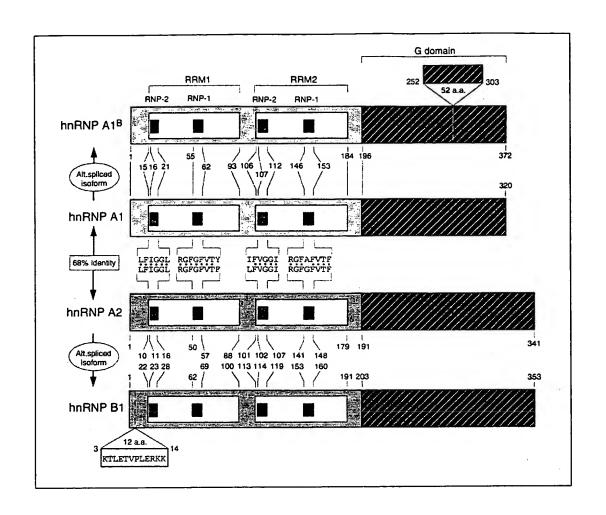


Fig. 2

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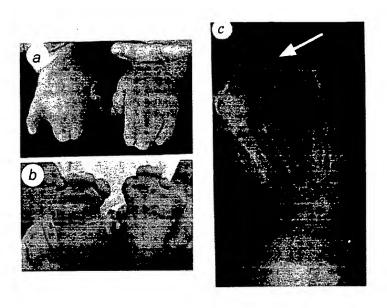


Fig. 3

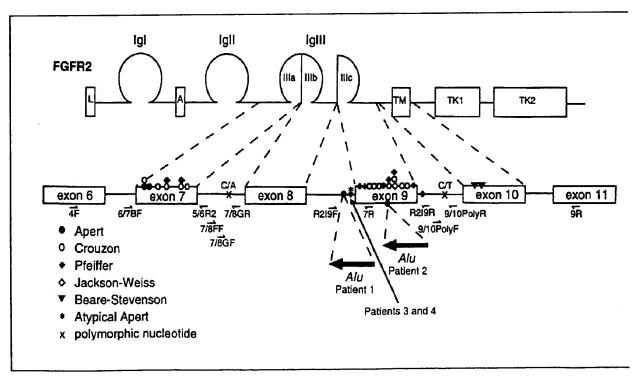
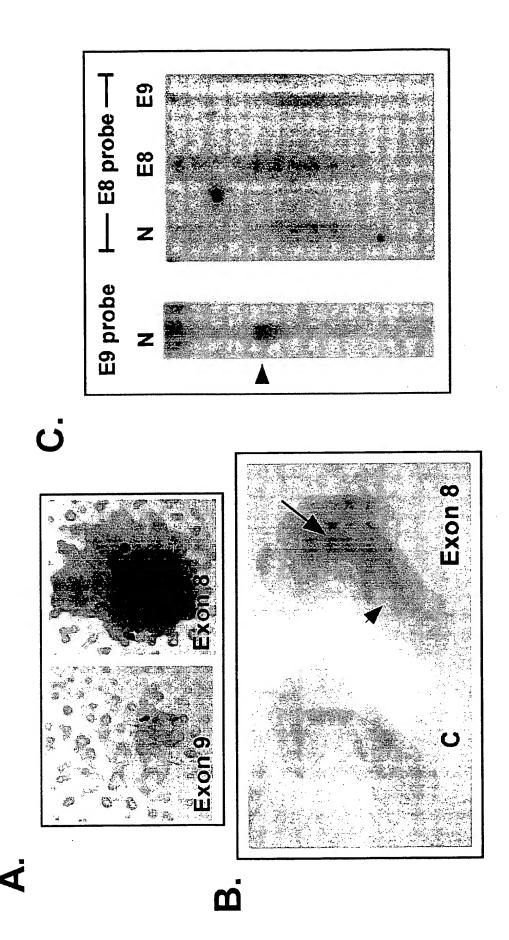


Fig. 4



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